

(No Model.)

F. A. BUCK & J. D. VALENTINE.  
SAWING MACHINE.

No. 597,950.

Patented Jan. 25, 1898.

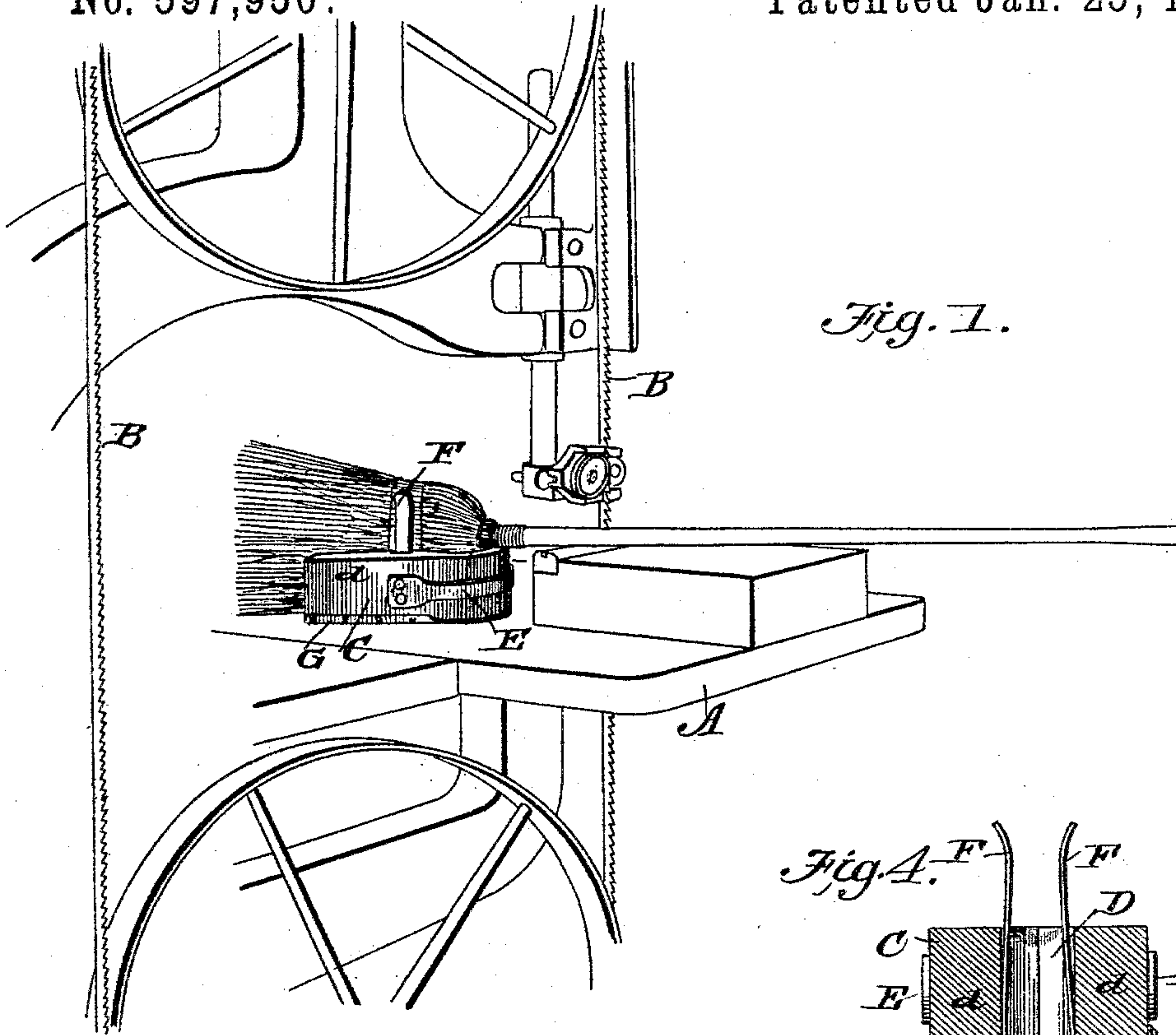


Fig. 1.

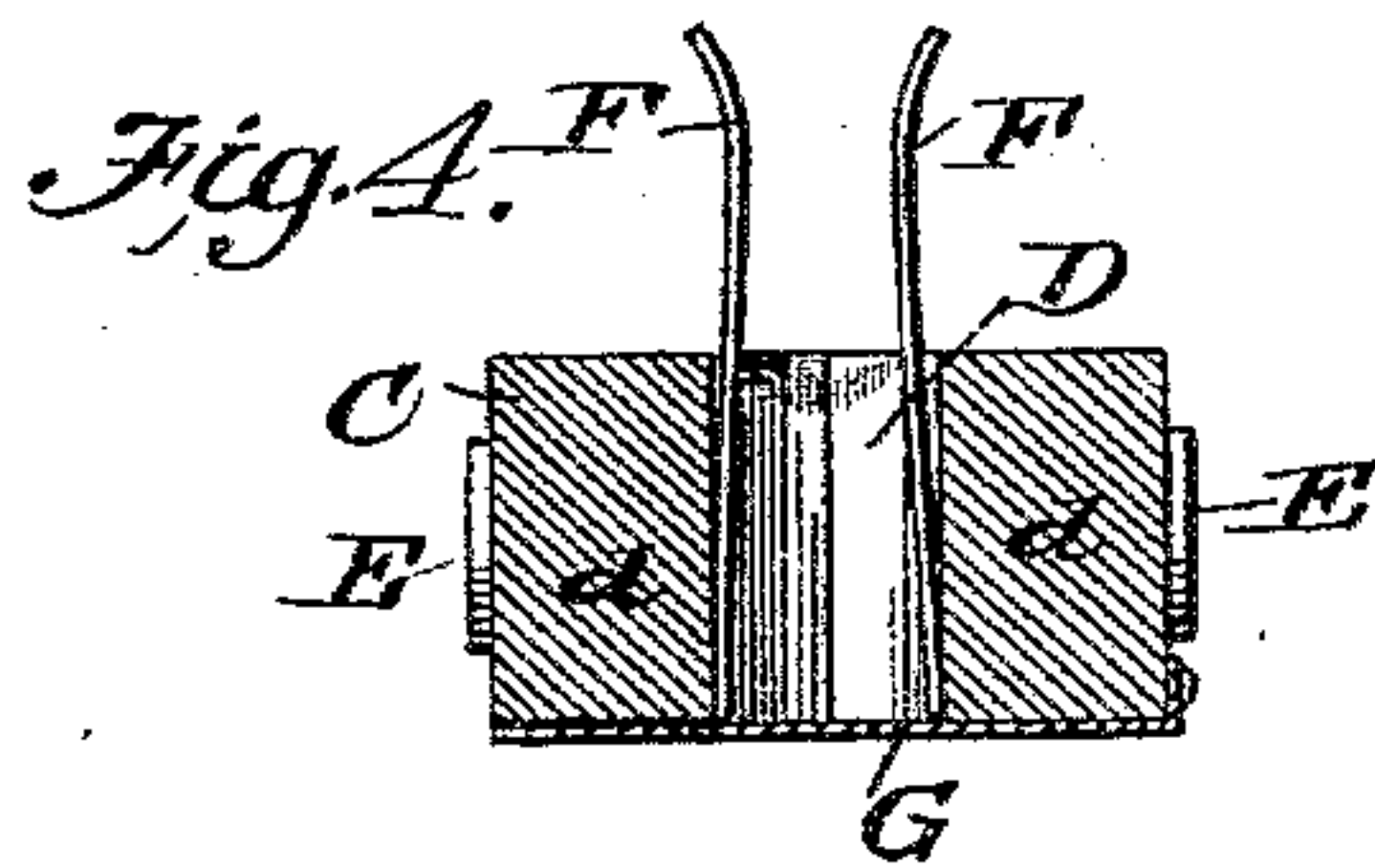


Fig. 2.

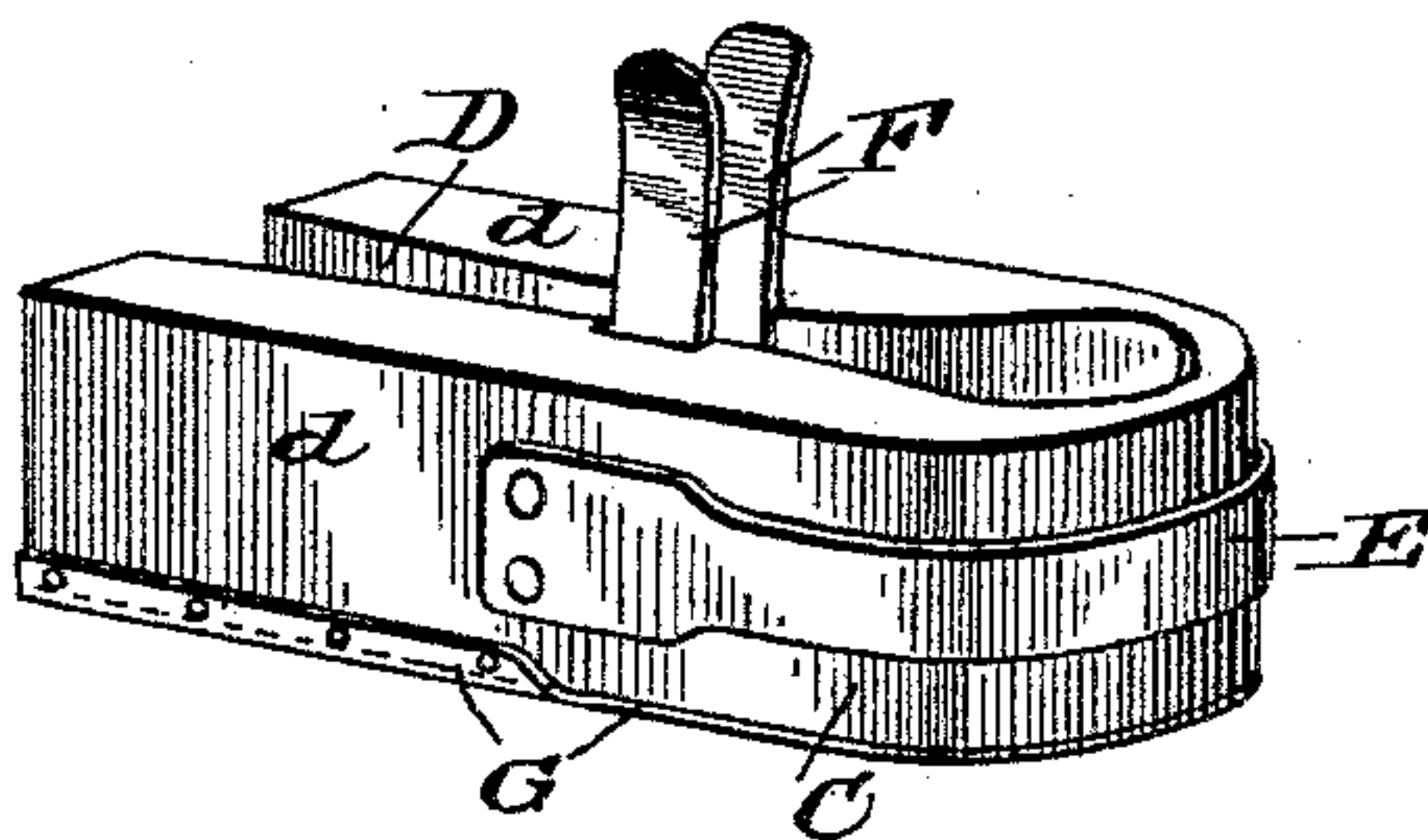
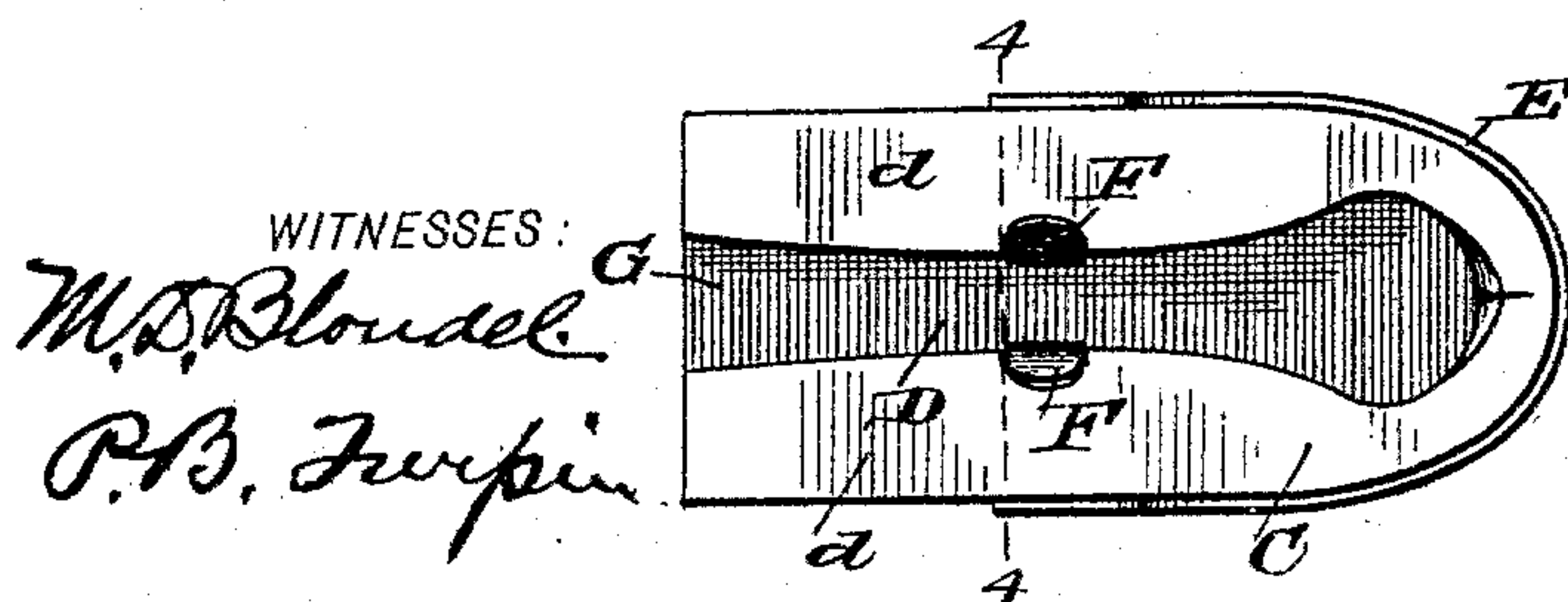


Fig. 3.



WITNESSES:

*M. D. Blondel.*

*P. B. Turpin.*

INVENTORS

*Fredrick A. Buck.*

*Joseph D. Valentine.*

BY

*Munn & Co.*

ATTORNEYS.



# UNITED STATES PATENT OFFICE.

FREDRICK A. BUCK AND JOSEPH D. VALENTINE, OF URBANA, OHIO.

## SAWING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 597,950, dated January 25, 1898.

Application filed August 3, 1897. Serial No. 646,877. (No model.)

*To all whom it may concern:*

Be it known that we, FREDRICK A. BUCK and JOSEPH D. VALENTINE, of Urbana, in the county of Champaign and State of Ohio, have  
5 invented a new and useful Improvement in Sawing-Machines, of which the following is a specification.

Our invention is an improvement in sawing-machines, and seeks to provide a broom-support for holding a broom edgewise or parallel  
10 to a saw-blade while the handle thereof is being acted on by a band-saw, jig-saw, or other suitable saw for the purpose of cutting a kerf or slit lengthwise through any portion of the  
15 same.

The invention consists in certain novel constructions, combinations, and arrangements of parts, as will be hereinafter described, and pointed out in the claims.

20 In the drawings, Figure 1 is a perspective view of the improvement as in use. Fig. 2 is a detail perspective view of the support. Fig. 3 is a top plan view thereof, and Fig. 4 is a cross-sectional view on about line 4 4 of Fig. 3.

25 It is desirable to cut the kerf or slit in a direction in line with or parallel with the plane of the broom, and in order to effect such end it is necessary to hold the broom edgewise or parallel to the saw-blade. It is also desirable  
30 to wave the slit or kerf, and for such reason it is necessary that the holder should be movable upon the sawing-machine.

The sawing-machine may be of the form shown or of any other suitable construction  
35 and is provided with the table A and the blade B. The holder C is adapted to be supported on the table A and to be movable freely thereon. This holder C may be of any suitable construction and is formed with the body  
40 having a recess D and the side sections or portions *d d* on opposite sides thereof. This recess is adapted to receive a broom inserted edgewise therein, and for special sizes of broom may be formed to receive them, in  
45 which case the body of the holder may be made solid. In order, however, that the holder may be adjusted to different sizes of brooms, we prefer to divide or nearly divide the body at the back to permit the sections *d d* to spring  
50 apart to enlarge the recess to adapt it to receive thicker brooms. In such case it is preferred to provide a spring E at the juncture

of sections *d* to press such sections toward each other.

Upon the body C we secure the spring-  
55 holder, consisting of the spring-plates F F, secured to the sections *d* and projecting up on opposite sides above the recess D. These upright springs F are preferably more flexible than the back spring E and when the broom  
60 is pushed down between them will open as the broom is forced down, after which the sections *d* will open, if the broom is larger than the recess D, to permit the passage of the  
65 edge of the broom into such recess.

The body is movable freely on the table to permit the kerf to be waved, and to reduce the friction we secure to the under side of the body a base-plate G, which in the adjustable  
70 form of the holder is secured to one side section *d*, extended across beneath the recess D, and lapped below the opposite section *d*, as shown.

The body may preferably be made of wood; but other material may be employed, if de-  
75 sired.

In practice it is found desirable to saw the kerf in the handle after the broom is applied because of the difficulty in making the brooms on the handle true to the kerf sawed prior to  
80 the application of the broom.

It should be understood that the slit is cut in the handle of the broom in order to make such handle elastic, the open end of the handle being bound in suitable manner, usually  
85 by a loose metal band which allows some play. The slit is cut waveringly, so that when the handle is bent the cut faces will fit into each other and brace each other to give the desired strength to the handle. It is practi-  
90 cally impossible to make the broom in a commercial way if the handle is sawed prior to the making of the broom thereon, a special advantage of our improved holder being that it holds the broom in a position parallel to  
95 the saw-blade while the latter is being sawed.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. A broom-holder for use on sawing-ma-  
100 chines, having its under side adapted to be moved over the sawing-machine table, provided with a recess proportioned of such depth and breadth as to receive and hold a broom



edgewise, and having at the closed end of the recess a seat for the broom-handle, the holder being provided at its sides with prolongations above the level of the handle-seat, substantially as described.

2. A broom-holder for use on sawing-machines, having its under side adapted to be moved over the sawing-machine table, provided with a recess proportioned of such depth and breadth as to receive and hold a broom edgewise, having at the end of the recess a seat for the broom-handle, and having at the sides of said recess upwardly-extending plates forming prolongations of the walls of said recess above the seat for the handle, substantially as described.

3. A broom-support substantially as described consisting of the body having side sections and a recess forming a seat for the broom, a spring by which the sections of the body may be pressed toward each other and a spring-holder supported on the body and projecting beyond the recess substantially as described.

4. The broom-support substantially as described consisting of the body having opposite side sections and an intermediate recess adapted to receive the broom edgewise, a spring whereby the sections are pressed to-

ward each other, the spring-plates secured to the side sections and extended upward at the opposite sides of said recess, and the bottom plate secured to one side section and extending across beneath the recess and lapping the under side of the opposite side section substantially as described.

5. A holder for brooms having a recess to receive the body of the broom edgewise and provided on opposite sides of said recess with upright springs forming guides to such recess and further supports for the broom substantially as described.

6. A broom-holder adapted at its underside to be moved upon the sawing-machine table, provided with a recess proportioned of such depth and width as to receive a broom edgewise up to about the handle thereof, and provided at its sides with upwardly-projecting plates forming prolongations of the side walls of said recess whereby to brace and support the broom above the level of the handle, substantially as described and shown.

FREDRICK A. BUCK.  
JOSEPH D. VALENTINE.

Witnesses:

FRANK W. McROBERTS,  
WILLIAM M. VALENTINE.